Carl T. Wittwer,

Kirk M. Ririe,

Randy P. Rasmussen

and

David R. Hillyard

for

SYSTEM AND METHOD FOR CARRYING OUT AND MONITORING BIOLOGICAL PROCESSES

PROGRAMMING CODE APPENDIX B

Temperature processor(IC 2) hex file (Temp24a.hex):

:03000000020033C8 :05000B00C0D002312508 :05001300C0D00230D74F :05002300C0D00232BA5A :05002B00C0D0023042CC :20003300C2AFC2D4C2D3

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Stepper processor(IC 3) hex file(Step23.hex):

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:20003300C2AFC2D4C2D3752100752200752300D215D28AAF81758130858115C0D0C0F0C098 :20005300E0C08753C6FB121C837527405388CF5389F0121F0E78FC121C57121F6E1221AC99 :20007300C20EC20FC208759850D2ACD2AFE587D0E0D000D001D0D030E20530E4028012206A :20009300E602800DBF0702800890245374FA0222E475C7AA75C755438740907058C082C030 :2000B3008378177A00C000C002902351C082C083D003D001D005D004D002D000121C8F905A :2000D3007024C082C08378197A00C000C002C000C002781A7A00C000C002D003D001D002E1 :2000F300D000121CCCE84A7003021CBC78027A00C000C002D003D001D002D000121D00C0F9 :2001130000C002D003D001D002D000121D3FC000C00278547A3DC000C002D002D000D083DA :20013300D082E8F0A3EAF0907009C082C083783C7A00D083D082E8F002068D907004C082F1 :20015300C08378007A00D083D082E8F0907010E0F8A3E0FAC000C00278807A3EC000C002C1 : 20017300D003D001D002D000121D59E84A70030201B4907010C082C083907010E0F8A3E042:20019300FAC000C00278807A3EC000C002D003D001D002D000121D8ED083D082E8F0A3EA91 :2001B300F0907010E0F8A3E0FAC000C00278007A00C000C002D003D001D002D000121DA4C8 : 2001D300E84A7003020209907010C082C083907010E0F8A3E0FAC000C00278807A3EC0006E:2001F300C002D003D001D002D000121D43D083D082E8F0A3EAF0907010E0F8A3E0FAC00053 :20021300C00278407A1FC000C002D003D001D002D000121D59E84A7003020272907004C089 :2002330082C08378017A00D083D082E8F0120631907010C082C08378807A3EC000C00290D6 :200253007010E0F8A3E0FAC000C002D003D001D002D000121D8ED083D082E8F0A3EAF090A7 :200273007012C082C083907010E0F8A3E0FAC000C00290700EE0F8A3E0FAC000C002D003C5 :20029300D001D002D000121DAAD083D082E8F0A3EAF090700CC082C08390700CE0F8A3E00D :2002B300FAC000C002907012E0F8A3E0FAC000C002D003D001D002D000121D43D083D08269 :2002D300E8F0A3EAF090700CE0F8A3E0FAC000C00278807A3EC000C002D003D001D002D05B :2002F30000121DFDE84A700302032D90700CC082C08390700CE0F8A3E0FAC000C00278807C :200313007A3EC000C002D003D001D002D000121D8ED083D082E8F0A3EAF0907010E0F8A308 :20033300E0FAC000C00278017A00C000C002D003D001D002D000121D59E84A70030205D28D :20035300907015E0F87A00C000C00278017A00C000C002D003D001D002D000121DA4E84AE1 :200373007003020389907015C082C08378017A00D083D082E8F0907015E0F87A00C000C078 :2003930002780B7A00C000C002D003D001D002D000121D59E84A70030203BF907015C0823B :2003B300C083780B7A00D083D082E8F090701EC082C083907010E0F8A3E0FAC000C002786B :2003D300027A00C000C002D003D001D002D000121E03D083D082E8F0A3EAF090701EE0F8A3 :2003F300A3E0FAC000C002907015E0F87A00C000C002D003D001D002D000121E57E84A7093 :200413000302042E90701EC082C083907015E0F87A00D083D082E8F0A3EAF090701CC08230 :20043300C08378017A00D083D082E8F0A3EAF090701AC082C08378157A00D083D082E8F056 :20045300A3EAF0907012C082C083907010E0F8A3E0FAC000C00290701EE0F8A3E0FAC0005B :20047300C00290701CE0F8A3E0FAC000C002D003D001D002D000121D00C000C00278027AC9 : 2004930000C000C002D003D001D002D000121D00C000C002D003D001D002D000121D8AD001:2004B30083D082E8F0A3EAF0907020C082C083907012E0F8A3E0FAC000C00278C87A00C0F7 :2004F30012E0F8A3E0FAC000C00278C87A00C000C002907020E0F8A3E0FAC000C002D003FA :20051300D001D002D000121D00C000C002D003D001D002D000121D8AD083D082E8F0A3EA9B

:200BB300907024C082C083907019E0F87A00C000C002C000C002781A7A00C000C002D003A9 :200BD300D001D002D000121CCCE84A7003021CBC78027A00C000C002D003D001D002D0005A :200BF300121D00C000C002D003D001D002D000121D3FC000C002D003D00189828B8312210B :200C3300907010E0F8A3E0FAC000C00290700EE0F8A3E0FAC000C002D003D001D002D0008F :200C5300121DAAD083D082E8F0A3EAF0907015C082C083780A7A00D083D082E8F012014E3A :200C7300907019C082C08378017A00D083D082E8F0121A20907016C082C08378007A00D0AA :200C930083D082E8F0121AF302075A907017C082C083122172750200D083D082E8F09070DD :200CB30017E0F87A00C000C00278097A00C000C002D003D001D002D000121E5DE84A700341 :200CD300021834120687907008C082C08378007A00D083D082E8F090700EE0F8A3E0FAC0F5 :200CF30000C00278FF7AFFC000C002D003D001D002D000121E5DE84A7003020D13120631CA :200D130090700CC082C08378007A00D083D082E8F0A3EAF0907015C082C08378057A00D0E2 :200D330083D082E8F0907005C082C08378007A00D083D082E8F0907017C082C083122172B9 :200D5300750200D083D082E8F0907017E0F87A00C000C00278007A00C000C002D003D00189 :200D7300D002D000122154E84A7003020D49907017E0F87A00C000C00278527A00C000C08B :200D930002D003D001D002D000121E5DE84A7003020DA9120631907017E0F87A00C000C0DC :200DB3000278507A00C000C002D003D001D002D000121E5DE84A7003020DE5907010C0829C :200DD300C08378017A00D083D082E8F0A3EAF012014E907017E0F87A00C000C00278447A4E :200DF30000C000C002D003D001D002D000121E5DE84A7003020E58907010C082C083780A67 :200E13007A00D083D082E8F0A3EAF012014E90700CE0F8A3E0FAC000C002786B7A3EC000AC :200E3300C002D003D001D002D000121D59E84A7003020E58907005C082C08378017A00D0B5 :200E7300121E5DE84A7003020ECB907010C082C08378147A00D083D082E8F0A3EAF01201AA :200E93004E90700CE0F8A3E0FAC000C002786B7A3EC000C002D003D001D002D000121D5923 :200EB300E84A7003020ECB907005C082C08378017A00D083D082E8F0907017E0F87A00C07C :200ED30000C00278477A00C000C002D003D001D002D000121E5DC000C002907005E0F87AD6 :200EF30000C000C00278007A00C000C002D003D001D002D000122154C000C002D003D001F6 :200F1300D002D0001221D2E84A7003020D49907005E0F87A00C000C00278007A00C000C0CF : 200F330002D003D001D002D000121E5DE84A700302181590700EE0F8A3E0FAC000C0027898:200F5300017A00C000C002D003D001D002D000121E5DE84A7003020F6F120631907017C069 : 200F730082C083122172750200D083D082E8F0907017E0F87A00C000C00278007A00C00063:200FB3007A00C000C00278207A00C000C002D003D001D002D000121D8E7A00D083D082E884 :200FD300F0907010C082C08378967A00C000C002907017E0F87A00C000C002D003D001D010 :200FF30002D000121D8ED083D082E8F0A3EAF0907015C082C083780A7A00D083D082E8F042 :2010130012014E907024C082C08378017A00C000C002C000C002781A7A00C000C002D0035B : 20103300D001D002D000121CCCE84A7003021CBC78027A00C000C002D003D001D002D000F5:20105300121D00C000C002D003D001D002D000121D3FC000C00278007A00D083D082E8F027 :20107300A3EAF0907007C082C08378017A00D083D082E8F0907010C082C08378367A05D052 :2010930083D082E8F0A3EAF0907015C082C083780A7A00D083D082E8F012014E90700CC0D3 :2010B30082C08378CA7AFAD083D082E8F0A3EAF0120631907017C082C083122172750200A7 :2010D300D083D082E8F0907017E0F87A00C000C00278007A00C000C002D003D001D002D0DB :2010F30000122154E84A70030210C6907017E0F87A00C000C002784E7A00C000C002D00359 :20111300D001D002D000121E5DE84A7003021178907007C082C083907007E0F87A00C000E7 :20113300C00278017A00C000C002D003D001D002D000121D437A00D083D082E8F0907010A6 :20115300C082C083789B7A02D083D082E8F0A3EAF0907015C082C083780A7A00D083D08233 :20117300E8F012014E907017E0F87A00C000C00278477A00C000C002D003D001D002D00037 :20119300121E5DE84A70030210C6907017C082C083122172750200D083D082E8F0907017E6 :2011B300E0F87A00C000C00278007A00C000C002D003D001D002D000122154E84A70030260 :2011D300119D907007C082C083907017E0F87A00C000C00278207A00C000C002D003D0019F

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Serial snoop processor(IC 16) hex file(Serial5.hex):

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- : 100010000606E8051009EA02060A08022900000A95
- : 10002000540C130A6C0C2B00EB02140A0008010C90
- :100030000600000C0500060C2500000A120C8901C0
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- :1000500043060504150C890143060505160C8901A4
- : 1000600043062504170C890143062505180C890150
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- :06008000EB02400A000A39
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- :0000001FF